Aloha mai and welcome to our Clean Ocean Sampling Team! We are excited to have you! Please take a moment to review details so that we can enjoy a successful sample morning together.

What to bring:

Please bring water, reef-friendly sun protection, a towel, comfortable shoes & clothes, and a snack if you'd like. We suggest close-toed shoes that can get wet. But most importantly, wear shoes that are comfortable for you with good grip so you don't slip. If you would like to help collect a sample bucket, please dress prepared to get wet up to your knees/waist.

What to expect:

- The sampling team will meet at the designated time and location that will be provided to you.
- Each sample team varies, but a sample morning consists of 5 to 7 sites. Each site takes about 20 to 30 minutes from start to finish. Sample mornings typically end by 10:30 AM.
- It's usually easy to spot our team in bright blue Hui O Ka Wai Ola shirts.
- You'll get a chance to meet everyone quickly and observe as the team verifies testing equipment.
    - We verify our equipment at the beginning and end of every sample morning to ensure all the data we will collect is precise and accurate.
- Then we head out to the coastline together or collect our first set of samples. Please take this first site as a chance to observe the team.
- After collecting 3 samples (a small bottle for turbidity, a syringe for organic and inorganic nutrients, and a bucket of water for the physical parameters) the team will head back to the "mobile lab" (aka the trunk of a team member's vehicle that will house all the testing equipment for the morning).
- At that point the team will test the physical parameters on site while another team member filters sand and sediment from our chemical samples and places that sample into an acid-washed bottle and finally in the cooler.

How to get your hands wet while still prioritizing the high standards of our data collection and SOPs:

If you feel ready to help, here are some actions you may be invited to take:

- **Collecting a Sample:**
    - Task: Physical measurements using the blue or white bucket.
        - Enter the water at the designated site, knee high depth, with the sample bucket.
        - Rinse the bucket 3 times before collecting the sample - always discarding water behind you.
        - Wait until the surf is bringing wave energy in towards you, to minimally impact the sample you are grabbing.
        - Collect samples from 8-12" below the water's surface.
        - Fill the bucket to the top of the bucket.

        - Exit the water, and transport the samples to the car for analyses.
        - There is a white lid available for the top of the bucket to protect the sample from rain or other elements.
        - Back at the mobile lab, pour out some of the sample water down to the line marked (about a third from the bottom) to reduce the chances of submerging the probes too deep.
- **<u>Preparing Nutrient samples</u>:**
    - Task: Filter the nutrient sample from a syringe with a filter tip into an acid-washed bottle and place the filtered sample into the cooler.
        - The key with this task is ensuring that the filter tip and the acid-washed bottle do not come in contact with your fingertips or other surfaces. This sample is sensitive!
- **<u>Testing Turbidity samples</u>:**
    - Task: Gently invert the plastic turbidity bottle <u>three times</u> and then pour the sample into the glass vial to be read by the turbidity meter
        - After the first pour, place the plastic cap back on the bottle and gently invert the sample <u>one more time</u>. Pour the sample water into the glass vial, up to the white line.
            - Repeat two more times.
    - Task: You may also be asked to hold the glass vial by the black cap only (do not get fingerprints on the glass vial!) and gently invert the sample immediately before placing the glass vial into the turbidity meter. Then quickly press the “Read” button on the meter.
        - When reading the value from the turbidity meter to the notetaker, please ensure the notetaker repeats the value back to you as confirmation.
        - Repeat these steps at least two more times for a total of three turbidity values.
- **<u>Testing Physical samples</u>:**
    - You may be asked to press the read button on the multi-meter and read the temperature, salinity, dissolved oxygen, and pH values aloud to the designated notetaker.
        - Have an experienced team member point out the values to be read from the multi-meter. When reading the value from the multi-meter to the notetaker, please ensure the notetaker repeats the value back to you as confirmation.

- For observers that do not plan to become official volunteers: Plan on joining our team for two sites, which will take about an hour in the field. The team will then move on and complete their sample morning at a normal pace.

Mahalo nui loa! We look forward to meeting you in the field!

Sincerely,
Hui O Ka Wai Ola Team